**WIL Report Management System**

Software design

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By

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# Chapter I | Introduction

# Purpose

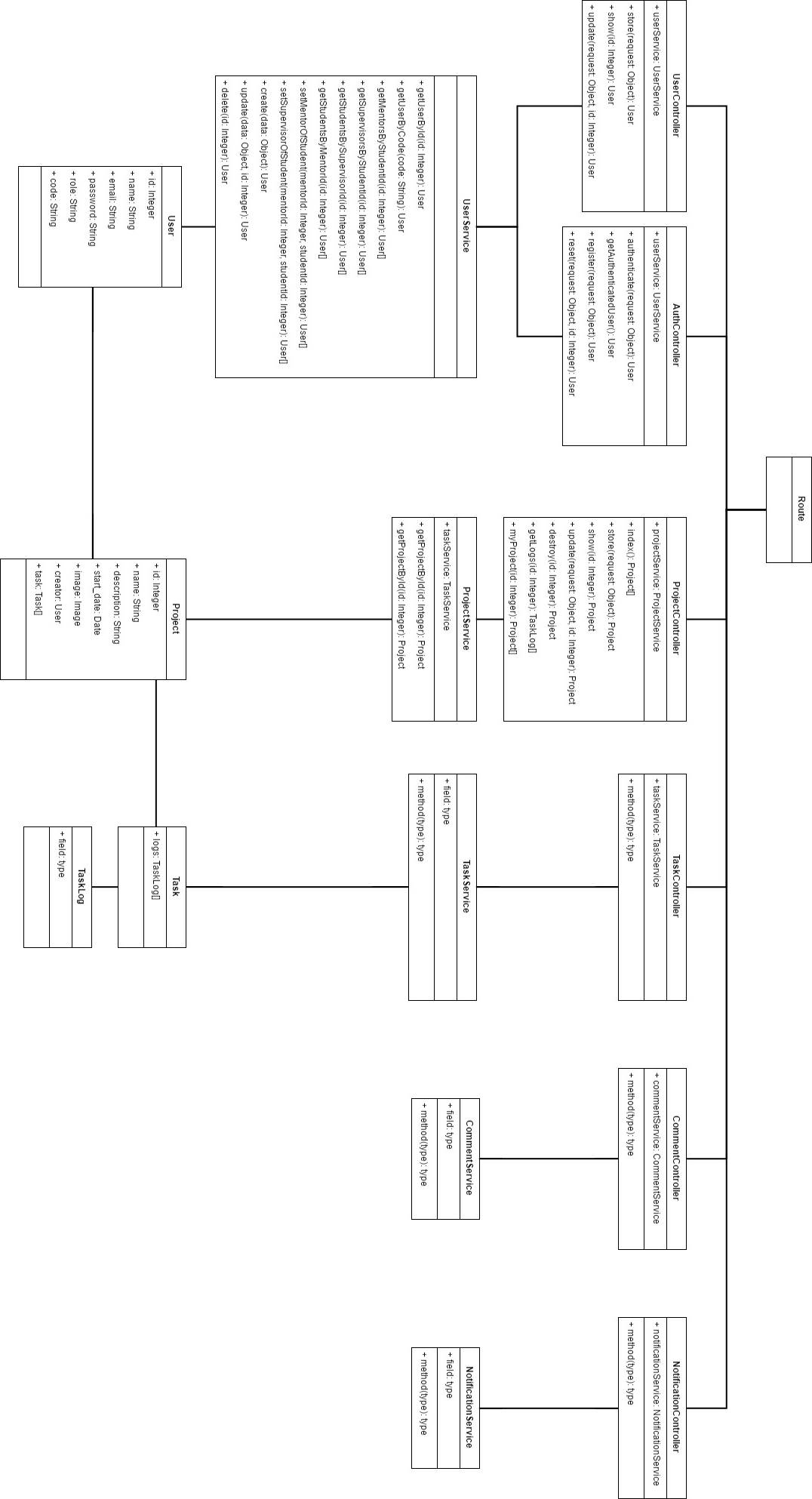
# Scope

# Acronyms and Definition

# Chapter II | System Architecture

# Chapter III | Detailed design

## Class diagram



## **Class diagram description**

### **Users**

**Entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Type** |
|  | id |  | Integer |
|  | name |  | String |
|  | email |  | String |
|  | password |  | String |
|  | role |  | String |
|  | code |  | String |

### **Project**

**Entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Type** |
|  | id |  | Integer |
|  | name |  | String |
|  | description |  | String |
|  | start\_date |  | Date |
|  | image |  | image |
|  | creator |  | User |
|  | task |  | Task array |

### **Task**

**Entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Type** |
|  | logs |  | TaskLog array |

### **TaskLog**

**Entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Type** |
|  |  |  |  |

### **UserService**

**Method Detail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method name** | **Description** | **Parameters** | **Return** |
| getUserById |  | id: integer | User Object |
| getUserByCode |  | code: string | User Object |
| getMentorsByStudentId |  | id: integer | User Array |
| getSupervisorsByStudentId |  | id: integer | User Array |
| getStudentsBySupervisorId |  | id: integer | User Array |
| getStudentsByMentorId |  | id: integer | User Array |
| setMentorOfStudent |  | mentorId : Integer  studentId: Interger | User Array |
| setSupervisorOfStudent |  | supervisorId : Integer  studentId: Interger | User Array |
| create |  | data: Object | User Object |
| delete |  | id : integer | User Object |

### **ProjectService**

**Entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Type** |
|  | taskService |  | TaskService Object |

**Method Detail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method name** | **Description** | **Parameters** | **Return** |
| getProductById |  | id: integer | Project object |
| getProjectById |  | id: integer | Project object |

### **TaskService**

**Entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Type** |
|  |  |  |  |

**Method Detail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method name** | **Description** | **Parameters** | **Return** |
|  |  |  |  |

### **CommentService**

**Entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Type** |
|  |  |  |  |

**Method Detail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method name** | **Description** | **Parameters** | **Return** |
|  |  |  |  |

### **NotificationService**

**Entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Type** |
|  |  |  |  |

**Method Detail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method name** | **Description** | **Parameters** | **Return** |
|  |  |  |  |

### **UserController**

**Entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Type** |
|  | userService |  | UserService Object |

**Method Detail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method name** | **Description** | **Parameters** | **Return** |
| store |  | request | User Object |
| show |  | id | User Object |
| update |  | request  id | User Object |

### **AuthController**

**Entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Type** |
|  | userService |  | UserService Object |

**Method Detail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method name** | **Description** | **Parameters** | **Return** |
| authenticate |  | request | User Object |
| getAuthenticatedUser |  | - | User Object |
| register |  | request | User Object |
| reset |  | request: Object | User Object |

### **ProjectController**

**Entities**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Type** |
|  | projectService |  | ProjectService Object |

**Method Detail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method name** | **Description** | **Parameters** | **Return** |
| index |  |  | Project Array |
| store |  | request: Object | Project Object |
| show |  | id: integer | Project Object |
| update |  | request: Object  id: integer | Project Object |
| destroy |  | id: integer | Project Object |
| getLogs |  | id: integer | TaskLog Array |
| myProject |  | id: integer | Project Array |

### **TaskController**

### **CommentController**

### **NotificationController**

## Sequence diagram

### 3.3.1 Feature 1

### 3.3.2 Feature 2

### 3.3.3 Feature 3

### 3.3.4 Feature 4

# Chapter IV | UI Design